LED Wall Wash

ORDERCODE 41210

SHOWELECTRONICS FOR PROFESSIONALS

Congratulations!
You have bought a great, innovative product from Showtec.
The Showtec LED Wall Wash brings excitement to any venue. Whether you want simple plug-&-play action or a sophisticated DMX show, this product provides the effect you need.

You can rely on Showtec, for more excellent lighting products.
We design and manufacture professional light equipment for the entertainment industry.
New products are being launched regularly. We work hard to keep you, our customer, satisfied.
For more information: iwant@showtec.info

You can get some of the best quality, best priced products on the market from Showtec.
So next time, turn to Showtec for more great lighting equipment.
Always get the best -- with Showtec !

Thank you!

Showtec

Showtec LED Wall Wash™ Product Guide

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WARNING

FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY BEFORE YOUR INITIAL START-UP!

SAFETY INSTRUCTIONS

Every person involved with the installation, operation and maintenance of this device has to:

- be qualified
- follow the instructions of this manual

**CAUTION! Be careful with your operations.
With a dangerous voltage you can suffer
a dangerous electric shock when touching the wires!**

Before your initial start-up, please make sure that there is no damage caused by transportation. Should there be any, consult your dealer and do not use the device.

To maintain perfect condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this manual.

Please consider that damages caused by manual modifications to the device are not subject to warranty.

This device contains no user-serviceable parts. Refer servicing to qualified technicians only.

IMPORTANT:

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorized modification to the device.

- Never let the power-cord come into contact with other cables! Handle the power-cord and all connections with the mains with particular caution!
- Never remove warning or informative labels from the unit.
- Never leave any cables lying around.
- Do not open the device and do not modify the device.
- Do not connect this device to a dimmerpack.
- Do not shake the device. Avoid brute force when installing or operating the device.
- Do not switch the device on and off in short intervals, as this would reduce the system's life.
- Only operate the device after having familiarized with its functions.
- Avoid flames and do not put close to flammable liquids or gases.
- Always allow free air space of at least 50 cm around the unit for ventilation.
- Always disconnect power from the mains, when device is not used or before cleaning! Only handle the power-cord by the plug. Never pull out the plug by tugging the power-cord.
- Make sure that the device is not exposed to extreme heat or dust.
- Make sure that the available voltage is not higher than stated on the rear panel.
- Make sure that the power-cord is never crimped or damaged. Check the device and the power-cord from time to time.
- If device is dropped or struck, disconnect mains power supply immediately. Have a qualified engineer inspect for safety before operating.
- If the device has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation water might damage your device. Leave the device switched off until it has reached room temperature.
- If your Showtec device fails to work properly, discontinue use immediately. Pack the unit securely (preferably in the original packing material), and return it to your Showtec dealer for service.
- For adult use only. The device must be installed out of the reach of children. Never leave the unit running unattended.
- For replacement use fuses of same type and rating only.
- Repairs, servicing and electric connection must be carried out by a qualified technician.
- WARRANTY: Till one year after date of purchase.

OPERATING DETERMINATIONS

If this device is operated in any other way, than the one described in this manual, the product may suffer damages and the warranty becomes void.

Any other operation may lead to dangers like short-circuit, burns, electric shock, lamp explosion, crash etc.

You endanger your own safety and the safety of others!

Rigging

Please follow the European and national guidelines concerning rigging, trussing and all other safety issues.

Do not attempt the installation yourself !
Always let the installation be carried out by an authorized dealer !

Procedure:

- If the LED Wall Wash is lowered from the ceiling or high joists, professional trussing systems have to be used.
- The LED Wall Wash must never be fixed swinging freely in the room.
- The installation must always be secured with a safety attachment, e.g. an appropriate safety net or safety-cable.
- When rigging, derigging or servicing the LED Wall Wash, always make sure, that the area below the installation place is blocked and staying in the area is forbidden.

Connection with the mains

Connect the device to the mains with the power-plug.
Always pay attention, that the right color cable is connected to the right place.

International	EU Cable	UK Cable	US Cable	Pin
L	BROWN	RED	YELLOW/COPPER	FASE
N	BLUE	BLACK	SILVER	NUL
⏚	YELLOW/GREEN	GREEN	GREEN	EARTH

Make sure that the device is always connected properly to the earth!

Improper installation can cause serious damage to people and property !

Description of the device

Features

The LED Wall Wash is a LED system from Showtec.
• 63 High power LEDs (21 Red, 21 Green, 21 Blue)
• DMX-controlled
•LED system: 1 Watt power LED
•Beam angle: 25x10°
•Usermode: Standalone, Music activated, DMX-512
• 5 Channels (R, G, B, Dimmer, Strobe)
•Power consumption: 70 W
•Dimmer: 0-100%
• Easy installation and operation

NOTE: Knowledge of DMX is required to fully utilize this unit.

Overview

Fig. 1

Topside

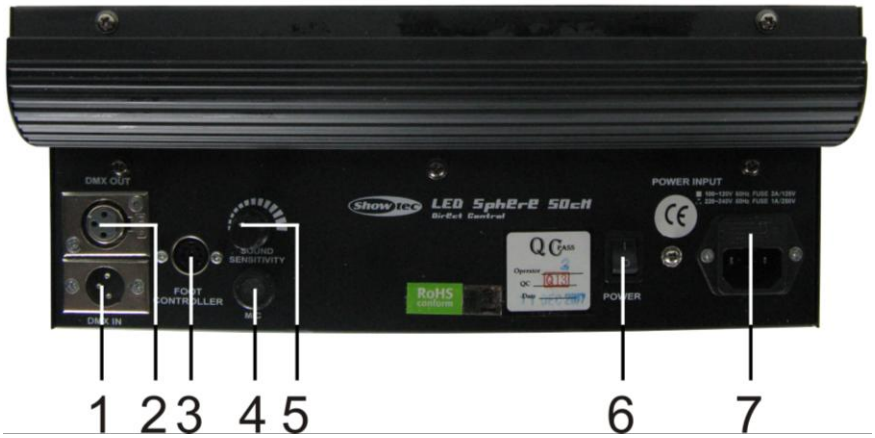


Fig. 2

1) DMX signal connector (IN)
2) DMX signal connector (OUT)
3) Foot Controller
4) Microphone
5) Audio Sensitivity
6) ON / OFF
7) IEC Connector + Fuse

Backside

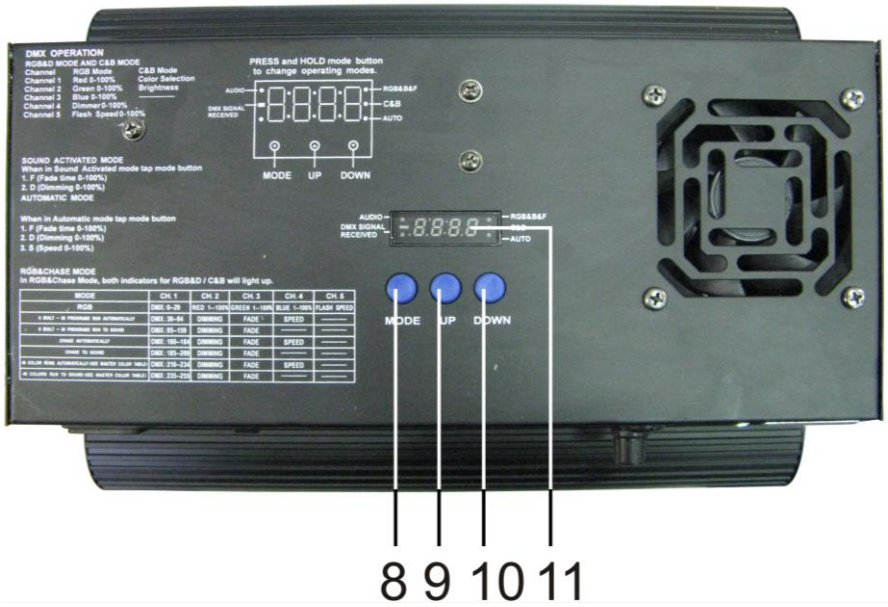


Fig. 3

8) Mode Button
9) Up Button
10) Down Button
11)) LCD Display

Installation

Remove all packing materials from the LED Wall Wash. Check that all foam and plastic padding is removed. Connect all cables.

Do not supply power before the whole system is set up and connected properly.
Always disconnect from electric mains power supply before cleaning or servicing.
Damages caused by non-observance are not subject to warranty.

Set Up and Operation

Follow the directions below, as they pertain to your preferred operation mode.
Before plugging the unit in, always make sure that the power supply matches the product specification voltage. Do not attempt to operate a 120V specification product on 230V power, or vice versa.

One LED Wall Wash (Stand-alone or Sound Control)

1. Fasten the effect light onto firm trussing. Leave at least 0,5 meter on all sides for air circulation.
2. When the LED Wall Wash is not connected by a DMX-cable, it functions as a stand-alone device.
See page 7 for stand-alone modes.

Multiple LED Wall Washes

1. Fasten the effect light onto firm trussing. Leave at least 0,5 meter on all sides for air circulation.
2. Use a 3-p XLR cable to connect the LED Wall Washes and other devices.
The pins:

1. Earth
2. Signal -
3. Signal +

3. Link the units as shown in (figure 4), Connect a DMX signal cable from the first unit's DMX "out" socket to the second unit's "in" socket. Repeat this process to link the second, third, and fourth units.
4. Supply electric power: Plug electric mains power cords into each unit's IEC socket, then plug the other end of the mains power cord into proper electric power supply sockets, starting with the first unit.
Do not supply power before the whole system is set up and connected properly.

Multiple LED Wall Wash Set Up

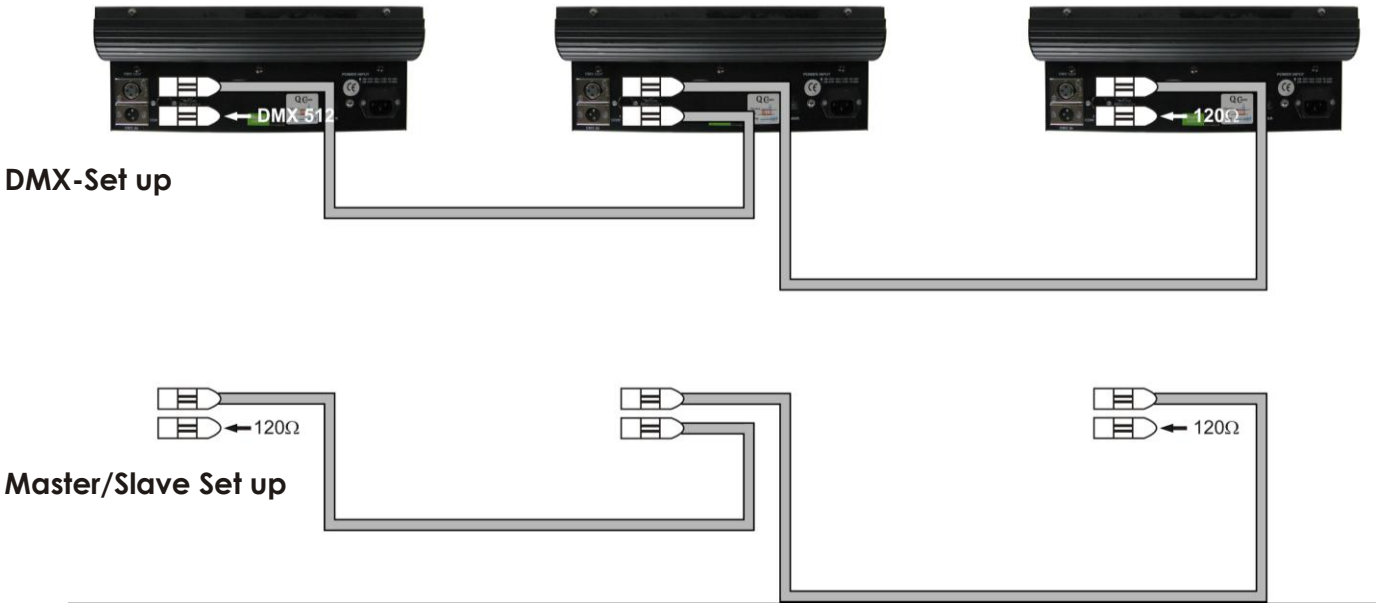


Fig. 4

Note : Link cables before connecting electric power

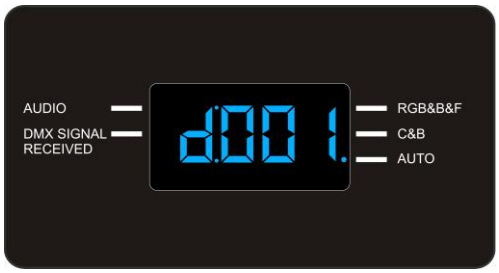
DMX-Protocol

Control Modes

There are 3 Modes: Stand-Alone (Built in Programs)
Sound-controlled
DMX

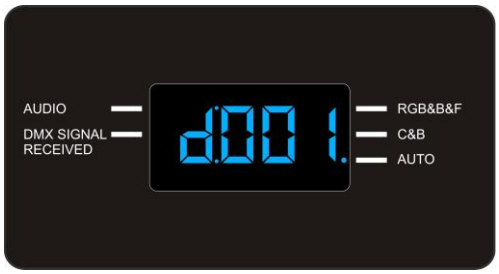
1. Stand-alone Mode

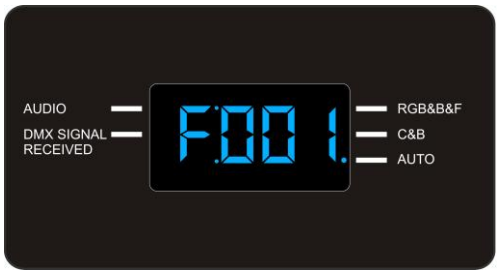
When the LED Wall Wash is not connected by a DMX-cable, it functions as a stand-alone device.
By holding down the Mode Button you can switch to Auto Mode.

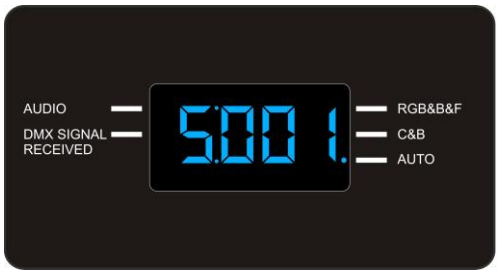


By shortly pressing the MODE-button in Stand-alone Mode you can change:

d:100 (Dimmer from 0-100%)
F:100 (Fade from 0-100%)
S:100 (Fade from 0-100%)





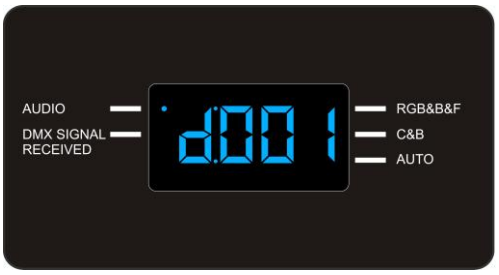


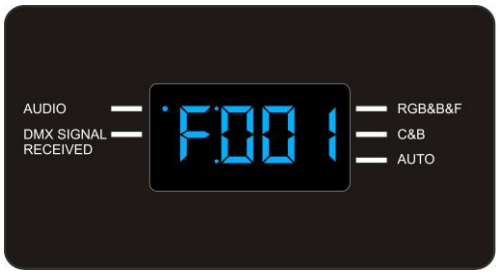
2. Sound Control Mode

When the LED Wall Wash is not connected by a DMX-cable, it functions as a stand-alone device.
By holding down the Mode Button you can switch to Audio, the LED Wall Wash will automatically change its color to the beat of the music. With the Audio Sensitivity control you can adjust its music-sensitivity.

By shortly pressing the MODE-button in Sound Control Mode you can change:

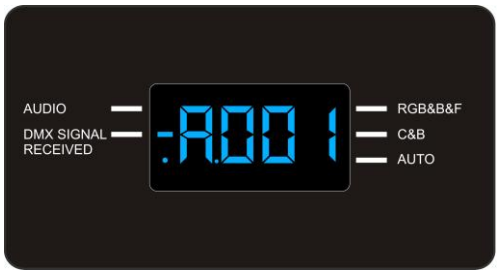
d:100 (Dimmer from 0-100%)
F:100 (Fade from 0-100%)





3. DMX Mode

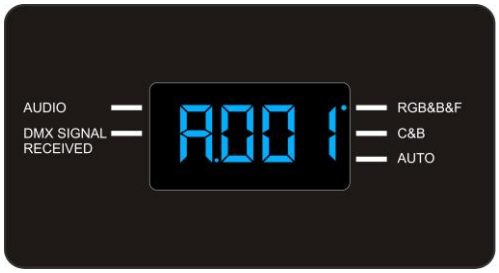
When the LED Wall Wash is connected by a DMX-cable, it functions as a DMX device.



You can change the DMX address from 1-511.

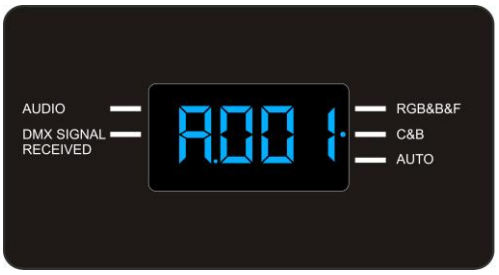
There are 3 different DMX Modi:

RGB&B&F Mode



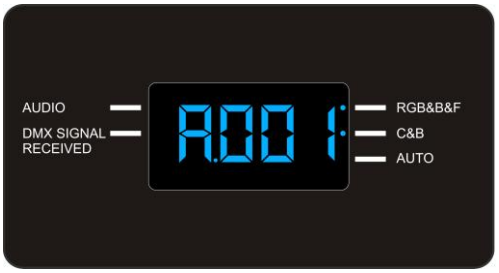
In **RGB&B&F** Mode, the device has 5 channels:
1. Red
2. Green
3. Blue
4. Dimmer
5. Strobe

C&B Mode



In **C&B** Mode, the device has 2 channels:
1. Color Select
2. Dimmer

RGB&D / C&B Mode



In **RGB&B&F / C&B** Mode, the device has 4 or 5 channels:

Mode	CH 1	CH 2	CH 3	CH 4	CH 5
RGB	DMX: 0 - 29	Red 0 -100%	Green 0-100%	Blue 0-100%	Flash Speed
8 Built-in programs run automatically	DMX: 30 – 94	Dimming 0-100%	Fade 0-100%	Speed 0-100%	----------
8 Built-in programs run to sound	DMX: 95 – 159	Dimming 0-100%	Fade 0-100%	----------	----------
Chase automatically	DMX: 160 – 184	Dimming 0-100%	Fade 0-100%	Speed 0-100%	----------
Chase to sound	DMX: 185 – 209	Dimming 0-100%	Fade 0-100%	----------	----------
40 Colors run automatically	DMX: 210 – 234	Dimming 0-100%	Fade 0-100%	Speed 0-100%	----------
40 Colors run to sound	DMX: 235 -255	Dimming 0-100%	Fade 0-100%	----------	----------

DMX Protocol

The LED Wall Wash can be operated with a controller in **control mode** or without the controller in **Stand-alone mode/Music mode.**

Control Panel

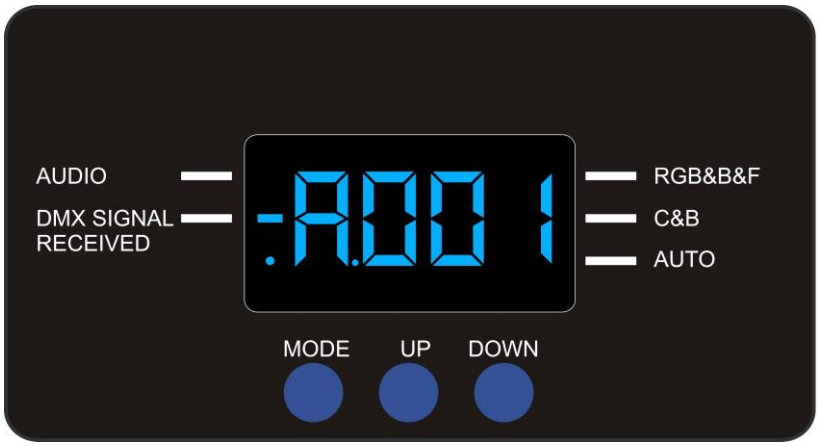


Fig. 6

Control Mode

The fixtures are individually addressed A001 -- A511 on a data-link and connected to the controller. The fixtures respond to the DMX signal from the controller. (When you select the DMX address and save it, the controller will display the saved DMX address the next time.)

DMX Addressing

The control panel on the front side of the LED Wall Wash allows you to assign the DMX fixture address, which is the first channel from which the LED Wall Wash will respond to the controller.
Please note when you use the controller, the unit has **5** channels.
When using multiple LED Wall Washes, make sure you set the DMX addresses right.
Therefore, the DMX address of the first LED Wall Wash should be **1(A001)**; the DMX address of the second LED Wall Wash should be **1+5=6 (A006**); the DMX address of the third LED Wall Wash should be **6+5=11 (A011)**, etc.
Please, be sure that you don't have any overlapping channels in order to control each LED Wall Wash correctly.
If two or more LED Wall Washes are addressed similarly, they will work similarly.
For address settings, please refer to the instructions under "Addressing' (menu A001)

Controlling:

After having addressed all LED Wall Wash fixtures, you may now start operating these via your lighting controller.
Note: After switching on, the LED Wall Wash will automatically detect whether DMX 512 data is received or not.
The problem may be:
- The XLR cable from the controller is not connected with the input of the LED Wall Wash.
- The controller is switched off or defective, the cable or connector is detective, or the signal wires are swapped in the input connector.

Note: It's necessary to insert a XLR termination plug (with 120 Ohm) in the last fixture in order to ensure proper transmission on the DMX data link.

DMX-Channels

RGB&D Mode

Channel 1 – Red

0-255	Gradual adjustment Red from 0 – 100%

Channel 2 – Green

0-255	Gradual adjustment Green from 0 – 100%

Channel 3 – Blue

0-255	Gradual adjustment Blue from 0 – 100%

Channel 4 – Dimmer intensity

0-255	From black to brightest

Channel 5 – Strobe

0-255	From slow to fast (1-10 flashes/sec.)

C&B Mode

Channel 1 – Color Select

0-255	Color Select

Channel 2 – Dimmer intensity

0-255	From black to brightest

Maintenance

The operator has to make sure that safety-relating and machine-technical installations are to be inspected by an expert after every four years in the course of an acceptance test.
The operator has to make sure that safety-relating and machine-technical installations are to be inspected by a skilled person once a year.

The following points have to be considered during the inspection:
1. All screws used for installing the device or parts of the device have to be tightly connected and must not be corroded.
2. There may not be any deformations on housings, fixations and installation spots.
3. Mechanically moving parts like axles, eyes and others may not show any traces of wearing.
4. The electric power supply cables must not show any damages or material fatigue.

The LED Wall Wash requires almost no maintenance. However, you should keep the unit clean. Disconnect the mains power supply, and then wipe the cover with a damp cloth. Do not immerse in liquid.
Keep connections clean. Disconnect electric power, and then wipe the audio connections with a damp cloth. Make sure connections are thoroughly dry before linking equipment or supplying electric power.

The Showtec LED Wall Wash requires almost no maintenance. However, you should keep the unit clean. Otherwise, the light-output will be significantly reduced. Disconnect the mains power supply, and then wipe the cover with a damp cloth. Do not immerse in liquid. Wipe lens clean with glass cleaner and a soft cloth. Do not use alcohol or solvents.
The front glass will require weekly cleaning, as smoke-fluid tends to build up residues, reducing the light-output very quickly.
Keep connections clean. Disconnect electric power, and then wipe the DMX and audio connections with a damp cloth. Make sure connections are thoroughly dry before linking equipment or supplying electric power.

Replacing a Fuse

Power surges, short-circuit or inappropriate electrical power supply may cause a fuse to burn out. If the fuse burns out, the product will not function whatsoever. If this happens, follow the directions below to do so.
1. Unplug the unit from electric power source.
2. Insert a flat-head screwdriver into a slot in the fuse cover. Gently pry up the fuse cover. The fuse will come out.
3. Remove the used fuse. If brown or unclear, it is burned out.
4. Insert the replacement fuse into the holder where the old fuse was. Reinsert the fuse cover. Be sure to use a fuse of the same type and specification. See the product specification label for details.

Troubleshooting

Showtec LED Wall Wash
This troubleshooting guide is meant to help solve simple problems.
If a problem occurs, carry out the steps below in sequence until a solution is found. Once the unit operates properly, do not carry out following steps.
1. If the device does not operate properly, unplug the device.
2. Check the power from the wall, the fuse, all cables etc.
3. If all of the above appears to be O.K., plug the unit in again.
4. If you are unable to determine the cause of the problem, do not open the LED Wall Wash, as this may damage the unit and the warranty will become void.
5. Return the device to your Showtec dealer.

No Light

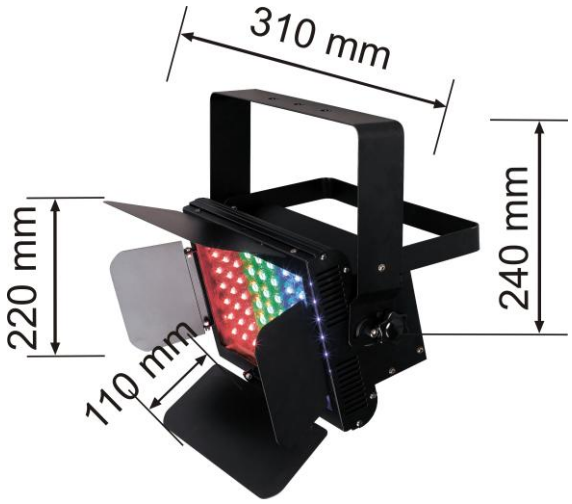
This troubleshooting guide is meant to help solve simple problems. If a problem occurs, carry out the steps below in sequence until a solution is found. Once the unit operates properly, do not carry out following steps.
If the light effect does not operate properly, refer servicing to a technician.
Response: Suspect three potential problem areas: the power supply, the lamp, the fuse.
1. Power supply. Check that the unit is plugged into an appropriate power supply.
2. The LEDs. Return the LED Wall Wash to your Showtec dealer.
3. The fuse. Replace the fuse. See page 11 for replacing the fuse.

No Response to DMX

Response: Suspect the DMX cable or connectors, a controller malfunction.
1. Check the DMX setting. Make sure that DMX addresses are correct.
2. Check the DMX cable: Unplug the unit; change the DMX cable; then reconnect to electrical power. Try your DMX control again.
3. Determine whether the controller or light effect is at fault. Does the controller operate properly with other DMX products ? If not, take the controller in for repair. If so, take the DMX cable and the light effect to a qualified technician.

Product Specification

Model: Showtec LED Wall Wash
Voltage : AC 90-264V 50/60Hz (CE)
Power: 70W
LED system: 1 Watt power LED
LED/unit: 21 red, 21 green, 21 blue
Beam angle: 25x10°
Usermode: Standalone, Music activated, DMX-512
DMX-512: 5 channels
Dimmer: 0-100%
DMX Input : 3-pin XLR Male connector
DMX Output : 3-pin XLR Female connector
Operating temperature: -20°C – 40°C
Dimensions (fully open): 430x230x340mm (L x W x H)
Weight : 4,64kg



Design and product specifications are subject to change without prior notice.

CE

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HIGHLITE INTERNATIONAL BV

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